Abstract

The invention relates to an optical filter device comprising at least one optical fibre and at least one output optical fibre. According to the invention, one such device comprises means of transferring at least one spectral band with at least one signal with multiple incident wavelengths to at least one of the aforementioned output optical fibres by means of at least one of said input optical fibers. The above-mentioned transfer means employ at least one programmable diffractive element which is located on an optical path between the input optical fibre(s) and the output optical fibre(s). The invention also relates to a spectral band router and a chromatic dispersion compensation device employing one such filter device.